



83127-11_seq_list_mar_2008.ST25.txt
SEQUENCE LISTING

<110> BIOMEASURE, INC.
<120> GHRELIN ANALOGS
<130> 113P2/PCT3/CA Yankwich BIO-113.2 PCT
<140> PCT/US2003/022925
<141> 2003-07-23
<150> US 60/427,488
<151> 2002-11-19
<150> US 60/397,834
<151> 2002-07-23
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<223> Xaa = 1-amino-1-cyclohexanecarboxylic acid (A6c),
1-amino-1-cyclopentanecarboxylic acid (A5c),
alpha-aminoisobutyric acid (Aib), homoLeu, or beta-cyclohexylAla
(Cha)

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alpha-aminoisobutyric acid (Aib), homoLeu, or beta-cyclohexylAla
(Cha)

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Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
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 beta-(4-pyridinyl)Ala (4Pal), beta-(4-thiazolyl)Ala (Taz),
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<223> Xaa = 5,5-dimethylthiazolidine-4-carboxylic acid (Dmt),
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Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
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<223> Xaa = 1-amino-1-cyclohexanecarboxylic acid (A6c), 1-amino-1-cyclopentanecarboxylic acid (A5c), alpha-aminoisobutyric acid (Aib), homoLeu, or beta-cyclohexylAla (Cha)

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4-amino-4-carboxytetrahydropyran (Act), Thr, or
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Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
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 <223> Xaa = 5,5-dimethylthiazolidine-4-carboxylic acid (Dmt), or thiazolidine-4-carboxylic acid (Thz), 4-hydroxyPro (4Hyp), pipecolic acid (Pip), 3,4-dehydroPro (Dhp), or 4-ketoPro (Ktp)

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Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
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Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
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 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

 <220>
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 <222> (28)..(28)
 <223> AMIDATION

 <400> 31
 Gly Ser Xaa Phe Leu Ser Pro Glu His Gln Arg Xaa Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 32
 <211> 28
 <212> PRT
 <213> Artificial

<220>
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<220>
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 <222> (3)..(3)
 <223> Xaa = 2,3-diaminopropionic acid (Dap) or 2,4-diaminobutyric acid (Dab), both modified with octanesulfonyl

<220>
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 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
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 <222> (15)..(15)
 <223> Xaa = ornithine (Orn)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 32
 Gly Ser Xaa Phe Leu Ser Pro Glu His Gln Arg Xaa Gln Gln Xaa Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 33
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<220>
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 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
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 <222> (16)..(16)
 <223> Xaa = Apc

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 33

Gly Ser Xaa Phe Leu Ser Pro Glu His Gln Arg Xaa Gln Gln Arg Xaa
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 34
 <211> 28
 <212> PRT
 <213> Artificial

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 <223> Xaa = 2,3-diaminopropionic acid (Dap) modified with octanesulfonyl

<220>
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 <223> Xaa = beta-(3-pyridinyl)Ala (3Pal), beta-(2-pyridinyl)Ala (2Pal), beta-(4-pyridinyl)Ala (4Pal), beta-(4-thiazolyl)Ala (Taz), beta-(2-thienyl)Ala (2Thi), beta-(2-furyl)-Ala (2Fua), Apc, or alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 34

Gly Ser Xaa Phe Leu Ser Pro Glu Xaa Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 35
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 <212> PRT
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<220>
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 <223> Xaa = 5,5-dimethylthiazolidine-4-carboxylic acid (Dmt), thiazolidine-4-carboxylic acid (Thz), 4-hydroxyPro (4Hyp), pipecolic acid (Pip), 3,4-dehydroPro (Dhp), or 4-ketoPro (Ktp)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 35

Gly Ser Xaa Phe Leu Ser Xaa Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 36
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<220>
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 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
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 <222> (28)..(28)
 <223> AMIDATION

<400> 36

Gly Ser Xaa Phe Leu Ser Pro Xaa His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 37
 <211> 28
 <212> PRT
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 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
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 <222> (28)..(28)
 <223> AMIDATION

<400> 37

Gly Ser Xaa Phe Leu Ser Pro Glu His Xaa Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 38
 <211> 28
 <212> PRT

<213> Artificial

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<223> Ghrelin Analog

<220>

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<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

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<222> (5)..(5)

<223> Xaa = 1-amino-1-cyclohexanecarboxylic acid (A6c),
1-amino-1-cyclopentanecarboxylic acid (A5c),
alpha-aminoisobutyric acid (Aib), homoLeu, or beta-cyclohexylAla
(Cha)

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

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<221> MISC_FEATURE

<222> (15)..(15)

<223> Xaa = ornithine (Orn)

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 38

Gly Xaa Ser Phe Xaa Ser Pro Glu His Gln Arg Xaa Gln Gln Xaa Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 39

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> Xaa = 1-amino-1-cyclohexanecarboxylic acid (A6c),
1-amino-1-cyclopentanecarboxylic acid (A5c),
alpha-aminoisobutyric acid (Aib), homoLeu, or beta-cyclohexylAla
(Cha)

<220>

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<222> (12)..(12)

<223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>

<221> MISC_FEATURE

<222> (15)..(15)

<223> Xaa = ornithine (Orn)

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 39

Gly Ser Ser Phe Xaa Ser Pro Glu His Gln Arg Xaa Gln Gln Xaa Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 40

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MISC_FEATURE

<222> (6)..(6)

<223> Xaa = alpha-aminoisobutyric acid (Aib),
4-amino-4-carboxytetrahydropyran (Act), Thr, or
alpha-aminobutyric acid (Abu)

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>

<221> MISC_FEATURE

<222> (15)..(15)

<223> Xaa = ornithine (Orn)

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 40

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 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 41
 <211> 28
 <212> PRT
 <213> Artificial

<220>
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<220>
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 <223> Xaa = beta-(3-pyridinyl)Ala (3Pal), beta-(2-pyridinyl)Ala (2Pal),
 beta-(4-pyridinyl)Ala (4Pal), beta-(4-thiazolyl)Ala (Taz),
 beta-(2-thienyl)Ala (2Thi), beta-(2-furyl)-Ala (2Fua), Apc, or
 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
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 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
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 <222> (15)..(15)
 <223> Xaa = ornithine (Orn)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 41

Gly Xaa Ser Phe Leu Ser Pro Glu Xaa Gln Arg Xaa Gln Gln Xaa Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 42
 <211> 28
 <212> PRT
 <213> Artificial

<220>
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<220>

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 <220>
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 <222> (7)..(7)
 <223> Xaa = 5,5-dimethylthiazolidine-4-carboxylic acid (Dmt),
 thiazolidine-4-carboxylic acid (Thz), 4-hydroxyPro (4Hyp),
 pipecolic acid (Pip), 3,4-dehydroPro (Dhp), or 4-ketoPro (Ktp)

 <220>
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 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

 <220>
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 <222> (15)..(15)
 <223> Xaa = ornithine (Orn)

 <220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

 <400> 42

Gly Xaa Ser Phe Leu Ser Xaa Glu His Gln Arg Xaa Gln Gln Xaa Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 43
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
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<220>
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 <222> (8)..(8)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
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 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
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<223> Xaa = ornithine (Orn)

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 43

Gly Xaa Ser Phe Leu Ser Pro Xaa His Gln Arg Xaa Gln Gln Xaa Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 44

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

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<222> (2)..(2)

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<222> (10)..(10)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>

<221> MISC_FEATURE

<222> (15)..(15)

<223> Xaa = ornithine (Orn)

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 44

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1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 45

<211> 28

<212> PRT
<213> Artificial

<220>
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<222> (2)..(2)
<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> Xaa = 1-amino-1-cyclohexanecarboxylic acid (A6c),
1-amino-1-cyclopentanecarboxylic acid (A5c),
alpha-aminoisobutyric acid (Aib), homoLeu, or beta-cyclohexylAla
(Cha)

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa = Apc

<220>
<221> MOD_RES
<222> (28)..(28)
<223> AMIDATION

<400> 45

Gly Xaa Ser Phe Xaa Ser Pro Glu His Gln Arg Xaa Gln Gln Arg Xaa
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 46
<211> 28
<212> PRT
<213> Artificial

<220>
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<220>
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<223> Xaa = 1-amino-1-cyclohexanecarboxylic acid (A6c),
1-amino-1-cyclopentanecarboxylic acid (A5c),
alpha-aminoisobutyric acid (Aib), homoLeu, or beta-cyclohexylAla
(Cha)

<220>

<221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
 <221> MISC_FEATURE
 <222> (16)..(16)
 <223> Xaa = Apc

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 46

Gly Ser Ser Phe Xaa Ser Pro Glu His Gln Arg Xaa Gln Gln Arg Xaa
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 47
 <211> 28
 <212> PRT
 <213> Artificial

<220>
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<220>
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 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
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 <222> (6)..(6)
 <223> Xaa = alpha-aminoisobutyric acid (Aib),
 4-amino-4-carboxytetrahydropyran (Act), Thr, or
 alpha-aminobutyric acid (Abu)

<220>
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 <222> (12)..(12)
 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
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 <222> (16)..(16)
 <223> Xaa = Apc

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 47

Gly Xaa Ser Phe Leu Xaa Pro Glu His Gln Arg Xaa Gln Gln Arg Xaa

1

5

10

15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 48
 <211> 28
 <212> PRT
 <213> Artificial

<220>
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<220>
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 <223> Xaa = beta-(3-pyridinyl)Ala (3Pal), beta-(2-pyridinyl)Ala (2Pal),
 beta-(4-pyridinyl)Ala (4Pal), beta-(4-thiazolyl)Ala (Taz),
 beta-(2-thienyl)Ala (2Thi), beta-(2-furyl)-Ala (2Fua), Apc, or
 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
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 <223> Xaa = Apc

<220>
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 <222> (28)..(28)
 <223> AMIDATION

<400> 48

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 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 49
 <211> 28
 <212> PRT
 <213> Artificial

<220>
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<220>
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<222> (2)..(2)
<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa = 5,5-dimethylthiazolidine-4-carboxylic acid (Dmt),
        thiazolidine-4-carboxylic acid (Thz), 4-hydroxyPro (4Hyp),
        pipecolic acid (Pip), 3,4-dehydroPro (Dhp), or 4-ketoPro (Ktp)

<220>
<221> MISC_FEATURE
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<223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa = Apc

<220>
<221> MOD_RES
<222> (28)..(28)
<223> AMIDATION

<400> 49

Gly Xaa Ser Phe Leu Ser Xaa Glu His Gln Arg Xaa Gln Gln Arg Xaa
1      5      10      15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
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<210> 50
<211> 28
<212> PRT
<213> Artificial

<220>
<223> Ghrelin Analog

<220>
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<220>
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<222> (8)..(8)
<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
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<223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
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<222> (16)..(16)
 <223> Xaa = Apc

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 50

Gly Xaa Ser Phe Leu Ser Pro Xaa His Gln Arg Xaa Gln Gln Arg Xaa
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 51
 <211> 28
 <212> PRT
 <213> Artificial

<220>
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<220>
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 <223> Xaa = alpha-aminoisobutyric acid (Aib)

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<220>
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 <223> Xaa = Apc

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 51

Gly Xaa Ser Phe Leu Ser Pro Glu His Xaa Arg Xaa Gln Gln Arg Xaa
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 52

<211> 28
 <212> PRT
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<220>
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<220>
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<220>
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 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
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 <222> (15)..(15)
 <223> Xaa = ornithine (Orn)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 52

Gly Ser Ser Phe Leu Xaa Pro Glu His Gln Arg Xaa Gln Gln Xaa Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 53
 <211> 28
 <212> PRT
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<220>
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<220>
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 beta-(2-thienyl)Ala (2Thi), beta-(2-furyl)-Ala (2Fua), Apc, or
 alpha-aminoisobutyric acid (Aib)

<220>
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 <223> Xaa = beta-(3-pyridinyl)Ala (A5c)

<220>

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<220>
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 <222> (28)..(28)
 <223> AMIDATION

<400> 53

Gly Ser Ser Phe Leu Ser Pro Glu Xaa Gln Arg Xaa Gln Gln Xaa Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
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<210> 54
 <211> 28
 <212> PRT
 <213> Artificial

<220>
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 thiazolidine-4-carboxylic acid (Thz), 4-hydroxyPro (4Hyp),
 pipecolic acid (Pip), 3,4-dehydroPro (Dhp), or 4-ketoPro (Ktp)

<220>
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 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
 <221> MISC_FEATURE
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 <223> Xaa = ornithine (Orn)

<220>
 <221> MOD_RES
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 <223> AMIDATION

<400> 54

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 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 55
 <211> 28
 <212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE

<222> (8)..(8)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

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<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>

<221> MISC_FEATURE

<222> (15)..(15)

<223> Xaa = ornithine (Orn)

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 55

Gly Ser Ser Phe Leu Ser Pro Xaa His Gln Arg Xaa Gln Gln Xaa Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 56

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE

<222> (10)..(10)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

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<222> (12)..(12)

<223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>

<221> MISC_FEATURE

<222> (15)..(15)

<223> Xaa = ornithine (Orn)

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 56

Gly Ser Ser Phe Leu Ser Pro Glu His Xaa Arg Xaa Gln Gln Xaa Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 57

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE

<222> (6)..(6)

<223> Xaa = alpha-aminoisobutyric acid (Aib),
4-amino-4-carboxytetrahydropyran (Act), Thr, or
alpha-aminobutyric acid (Abu)

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>

<221> MISC_FEATURE

<222> (16)..(16)

<223> Xaa = Apc

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 57

Gly Ser Ser Phe Leu Xaa Pro Glu His Gln Arg Xaa Gln Gln Arg Xaa
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 58

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE
 <222> (9)..(9)
 <223> Xaa = beta-(3-pyridinyl)Ala (3Pal), beta-(2-pyridinyl)Ala (2Pal),
 beta-(4-pyridinyl)Ala (4Pal), beta-(4-thiazolyl)Ala (Taz),
 beta-(2-thienyl)Ala (2Thi), beta-(2-furyl)-Ala (2Fua), Apc, or
 alpha-aminoisobutyric acid (Aib)

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
 <221> MISC_FEATURE
 <222> (16)..(16)
 <223> Xaa = Apc

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 58

Gly Ser Ser Phe Leu Ser Pro Glu Xaa Gln Arg Xaa Gln Gln Arg Xaa
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 59
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> Xaa = 5,5-dimethylthiazolidine-4-carboxylic acid (Dmt),
 thiazolidine-4-carboxylic acid (Thz), 4-hydroxyPro (4Hyp),
 pipecolic acid (Pip), 3,4-dehydroPro (Dhp), or 4-ketoPro (Ktp)

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
 <221> MISC_FEATURE
 <222> (16)..(16)
 <223> Xaa = Apc

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 59

Gly Ser Ser Phe Leu Ser Xaa Glu His Gln Arg Xaa Gln Gln Arg Xaa
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 60

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE

<222> (8)..(8)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>

<221> MISC_FEATURE

<222> (16)..(16)

<223> Xaa = Apc

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 60

Gly Ser Ser Phe Leu Ser Pro Xaa His Gln Arg Xaa Gln Gln Arg Xaa
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 61

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE

<222> (10)..(10)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

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<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
 <221> MISC_FEATURE
 <222> (16)..(16)
 <223> Xaa = Apc

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 61

Gly Ser Ser Phe Leu Ser Pro Glu His Xaa Arg Xaa Gln Gln Arg Xaa
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 62
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-hexyl

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> Xaa = 1-amino-1-cyclohexanecarboxylic acid (A6c),
 1-amino-1-cyclopentanecarboxylic acid (A5c),
 alpha-aminoisobutyric acid (Aib), or homoLeu

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 62

Gly Xaa Glu Phe Xaa Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 Page 39

<210> 63
<211> 28
<212> PRT
<213> Artificial

<220>
<223> Ghrelin Analog

<220>
<221> MOD_RES
<222> (3)..(3)
<223> modified with NH-hexyl

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> Xaa = 1-amino-1-cyclohexanecarboxylic acid (A6c),
1-amino-1-cyclopentanecarboxylic acid (A5c),
alpha-aminoisobutyric acid (Aib), homoLeu, or beta-cyclohexylAla
(Cha)

<220>
<221> MOD_RES
<222> (28)..(28)
<223> AMIDATION

<400> 63

Gly Ser Glu Phe Xaa Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 64
<211> 28
<212> PRT
<213> Artificial

<220>
<223> Ghrelin Analog

<220>
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<222> (2)..(2)
<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
<221> MOD_RES
<222> (3)..(3)
<223> modified with NH-hexyl

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = alpha-aminoisobutyric acid (Aib) or

83127-11_seq_list_mar_2008.ST25.txt
 4-amino-4-carboxytetrahydropyran (Act), Thr, or
 alpha-aminobutyric acid (Abu)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 64

Gly Xaa Glu Phe Leu Xaa Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 65
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-hexyl

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> Xaa = beta-(3-pyridinyl)Ala (3Pal), beta-(2-pyridinyl)Ala (2Pal),
 beta-(4-pyridinyl)Ala (4Pal), beta-(4-thiazolyl)Ala (Taz),
 beta-(2-thienyl)Ala (2Thi), alpha-aminoisobutyric acid (2Fua),
 Apc, or alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 65

Gly Xaa Glu Phe Leu Ser Pro Glu Xaa Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 66
 <211> 28
 <212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (3)..(3)

<223> modified with NH-hexyl

<220>

<221> MISC_FEATURE

<222> (7)..(7)

<223> Xaa = 5,5-dimethylthiazolidine-4-carboxylic acid (Dmt),
thiazolidine-4-carboxylic acid (Thz), 4-hydroxyPro (4Hyp),
pipecolic acid (Pip), 3,4-dehydroPro (Dhp), or 4-ketoPro (Ktp)

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 66

Gly Xaa Glu Phe Leu Ser Xaa Glu His Gln Arg Val Gln Gln Arg Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 67

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (3)..(3)

<223> modified with NH-hexyl

<220>

<221> MISC_FEATURE

<222> (8)..(8)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 67

Gly Xaa Glu Phe Leu Ser Pro Xaa His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 68
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-hexyl

<220>
 <221> MISC_FEATURE
 <222> (10)..(10)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 68

Gly Xaa Glu Phe Leu Ser Pro Glu His Xaa Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 69
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>

<221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-hexyl

<220>
 <221> MISC_FEATURE
 <222> (6)..(6)
 <223> Xaa = alpha-aminoisobutyric acid (Aib),
 4-amino-4-carboxytetrahydropyran (Act), Thr, or
 alpha-aminobutyric acid (Abu)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 69

Gly Ser Glu Phe Leu Xaa Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 70
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
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 <222> (3)..(3)
 <223> modified with NH-hexyl

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> Xaa = beta-(3-pyridinyl)Ala (3Pal), beta-(2-pyridinyl)Ala (2Pal),
 beta-(4-pyridinyl)Ala (4Pal), beta-(4-thiazolyl)Ala (Taz),
 beta-(2-thienyl)Ala (2Thi), alpha-aminoisobutyric acid (2Fua),
 Apc, or alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 70

Gly Ser Glu Phe Leu Ser Pro Glu Xaa Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 71
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
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 <223> modified with NH-hexyl

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> Xaa = 5,5-dimethylthiazolidine-4-carboxylic acid (Dmt),
 thiazolidine-4-carboxylic acid (Thz), 4-hydroxyPro (4Hyp),
 pipecolic acid (Pip), 3,4-dehydroPro (Dhp), or 4-ketoPro (Ktp)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 71

Gly Ser Glu Phe Leu Ser Xaa Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 72
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
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 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-hexyl

<220>
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 <222> (5)..(5)
 <223> Xaa = 1-amino-1-cyclohexanecarboxylic acid (A6c),
 1-amino-1-cyclopentanecarboxylic acid (A5c),
 alpha-aminoisobutyric acid (Aib), or beta-cyclohexylAla (Cha)

<220>

<221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
 <221> MISC_FEATURE
 <222> (15)..(15)
 <223> Xaa = ornithine (Orn)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 72

Gly Xaa Glu Phe Xaa Ser Pro Glu His Gln Arg Xaa Gln Gln Xaa Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 73
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
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 <223> modified with NH-hexyl

<220>
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 <223> Xaa = 1-amino-1-cyclohexanecarboxylic acid (A6c)

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
 <221> MISC_FEATURE
 <222> (15)..(15)
 <223> Xaa = ornithine (Orn)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 73

Gly Ser Glu Phe Xaa Ser Pro Glu His Gln Arg Xaa Gln Gln Xaa Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 74
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
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 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-hexyl

<220>
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 <222> (6)..(6)
 <223> Xaa = alpha-aminoisobutyric acid (Aib),
 4-amino-4-carboxytetrahydropyran (Act), Thr, or
 alpha-aminobutyric acid (Abu)

<220>
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 <222> (12)..(12)
 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
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 <222> (15)..(15)
 <223> Xaa = ornithine (Orn)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 74

Gly Xaa Glu Phe Leu Xaa Pro Glu His Gln Arg Xaa Gln Gln Xaa Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 75
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

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<220>
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<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
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<223> modified with NH-hexyl

<220>
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<222> (9)..(9)
<223> Xaa = beta-(3-pyridinyl)Ala (3Pal), beta-(2-pyridinyl)Ala (2Pal),
      beta-(4-pyridinyl)Ala (4Pal), beta-(4-thiazolyl)Ala (Taz),
      beta-(2-thienyl)Ala (2Thi), alpha-aminoisobutyric acid (2Fua),
      (Apc), or alpha-aminoisobutyric acid (Aib)

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
<221> MISC_FEATURE
<222> (15)..(15)
<223> Xaa = ornithine (Orn)

<220>
<221> MOD_RES
<222> (28)..(28)
<223> AMIDATION

<400> 75

Gly Xaa Glu Phe Leu Ser Pro Glu Xaa Gln Arg Xaa Gln Gln Xaa Lys
1          5          10          15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
          20          25

<210> 76
<211> 28
<212> PRT
<213> Artificial

<220>
<223> Ghrelin Analog

<220>
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<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
<221> MOD_RES
<222> (3)..(3)
<223> modified with NH-hexyl

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<220>
 <221> MISC_FEATURE
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 <223> Xaa = 5,5-dimethylthiazolidine-4-carboxylic acid (Dmt),
 thiazolidine-4-carboxylic acid (Thz), 4-hydroxyPro (4Hyp),
 pipecolic acid (Pip), 3,4-dehydroPro (Dhp), or 4-ketoPro (Ktp)

<220>
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 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
 <221> MISC_FEATURE
 <222> (15)..(15)
 <223> Xaa = ornithine (Orn)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 76

Gly Xaa Glu Phe Leu Ser Xaa Glu His Gln Arg Xaa Gln Gln Xaa Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 77
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
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 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-hexyl

<220>
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 <222> (8)..(8)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
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 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>

<221> MISC_FEATURE
 <222> (15)..(15)
 <223> Xaa = ornithine (Orn)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 77

Gly Xaa Glu Phe Leu Ser Pro Xaa His Gln Arg Xaa Gln Gln Xaa Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 78
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-hexyl

<220>
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 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
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 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
 <221> MISC_FEATURE
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 <223> Xaa = ornithine (Orn)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 78

Gly Xaa Glu Phe Leu Ser Pro Glu His Xaa Arg Xaa Gln Gln Xaa Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 79
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
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 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-hexyl

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> Xaa = 1-amino-1-cyclohexanecarboxylic acid (A6c),
 1-amino-1-cyclopentanecarboxylic acid (A5c),
 alpha-aminoisobutyric acid (Aib), homoLeu, or beta-cyclohexylAla
 (Cha)

<220>
 <221> MISC_FEATURE
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 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
 <221> MISC_FEATURE
 <222> (16)..(16)
 <223> Xaa = Apc

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 79

Gly Xaa Glu Phe Xaa Ser Pro Glu His Gln Arg Xaa Gln Gln Arg Xaa
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 80
 <211> 28
 <212> PRT
 <213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MOD_RES

<222> (3)..(3)

<223> modified with NH-hexyl

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> Xaa = 1-amino-1-cyclohexanecarboxylic acid (A6c)

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>

<221> MISC_FEATURE

<222> (16)..(16)

<223> Xaa = Apc

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 80

Gly Ser Glu Phe Xaa Ser Pro Glu His Gln Arg Xaa Gln Gln Arg Xaa
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 81

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (3)..(3)

<223> modified with NH-hexyl

<220>

<221> MISC_FEATURE

<222> (6)..(6)

<223> Xaa = alpha-aminoisobutyric acid (Aib),
4-amino-4-carboxytetrahydropyran (Act), Thr, or
alpha-aminobutyric acid (Abu)

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
 <221> MISC_FEATURE
 <222> (16)..(16)
 <223> Xaa = Apc

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 81

Gly Xaa Glu Phe Leu Xaa Pro Glu His Gln Arg Xaa Gln Gln Arg xaa
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 82
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-hexyl

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> Xaa = beta-(3-pyridinyl)Ala (3Pal), beta-(2-pyridinyl)Ala (2Pal),
 beta-(4-pyridinyl)Ala (4Pal), beta-(4-thiazolyl)Ala (Taz),
 beta-(2-thienyl)Ala (2Thi), alpha-aminoisobutyric acid (2Fua),
 (Apc), or alpha-aminoisobutyric acid (Aib)

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
 <221> MISC_FEATURE
 <222> (16)..(16)
 <223> Xaa = Apc

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<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 82

Gly Xaa Glu Phe Leu Ser Pro Glu Xaa Gln Arg Xaa Gln Gln Arg Xaa
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 83
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-hexyl

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> Xaa = 5,5-dimethylthiazolidine-4-carboxylic acid (Dmt),
 thiazolidine-4-carboxylic acid (Thz), 4-hydroxyPro (4Hyp),
 pipecolic acid (Pip), 3,4-dehydroPro (Dhp), or 4-ketoPro (Ktp)

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
 <221> MISC_FEATURE
 <222> (16)..(16)
 <223> Xaa = Apc

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 83

Gly Xaa Glu Phe Leu Ser Xaa Glu His Gln Arg Xaa Gln Gln Arg Xaa
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 Page 54

<210> 84
<211> 28
<212> PRT
<213> Artificial

<220>
<223> Ghrelin Analog

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
<221> MOD_RES
<222> (3)..(3)
<223> modified with NH-hexyl

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa = Apc

<220>
<221> MOD_RES
<222> (28)..(28)
<223> AMIDATION

<400> 84

Gly Xaa Glu Phe Leu Ser Pro Xaa His Gln Arg Xaa Gln Gln Arg Xaa
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 85
<211> 28
<212> PRT
<213> Artificial

<220>
<223> Ghrelin Analog

<220>
<221> MISC_FEATURE

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<222> (2)..(2)
<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
<221> MOD_RES
<222> (3)..(3)
<223> modified with NH-hexyl

<220>
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<222> (10)..(10)
<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa = Apc

<220>
<221> MOD_RES
<222> (28)..(28)
<223> AMIDATION

<400> 85

Gly Xaa Glu Phe Leu Ser Pro Glu His Xaa Arg Xaa Gln Gln Arg Xaa
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 86
<211> 28
<212> PRT
<213> Artificial

<220>
<223> Ghrelin Analog

<220>
<221> MOD_RES
<222> (3)..(3)
<223> modified with O-hexyl, or NH-hexyl

<220>
<221> MOD_RES
<222> (28)..(28)
<223> AMIDATION

<400> 86

Gly Ser Glu Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 87
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> modified with O-hexyl, or NH-hexyl

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 87

Gly Xaa Glu Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 88
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MISC_FEATURE
 <222> (3)..(3)
 <223> Xaa = Glu modified with NH-hexyl, or Dap (2,3-diaminopropionic acid) modified with 1-octanesulfonyl

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 88

Xaa Ser Xaa Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 89

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MISC_FEATURE

<222> (3)..(3)

<223> Xaa = Dap (2,3-diaminopropionic acid) modified with
 1-octanesulfonyl

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 89

Gly Xaa Xaa Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 90

<211> 5

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MOD_RES

<222> (1)..(1)

<223> modified with acyl (Ac)

<220>

<221> MOD_RES

<222> (5)..(5)

<223> AMIDATION

<400> 90

Gly Ser Ser Phe Leu
1 5

<210> 91
<211> 6
<212> PRT
<213> Artificial

<220>
<223> Ghrelin Analog

<220>
<221> MOD_RES
<222> (1)..(1)
<223> modified with acyl (Ac)

<220>
<221> MOD_RES
<222> (6)..(6)
<223> AMIDATION

<400> 91

Gly Ser Ser Phe Leu Ser
1 5

<210> 92
<211> 7
<212> PRT
<213> Artificial

<220>
<223> Ghrelin Analog

<220>
<221> MOD_RES
<222> (1)..(1)
<223> modified with acyl (Ac)

<220>
<221> MOD_RES
<222> (7)..(7)
<223> AMIDATION

<400> 92

Gly Ser Ser Phe Leu Ser Pro
1 5

<210> 93
<211> 28
<212> PRT
<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MOD_RES

<222> (1)..(1)

<223> modified with acyl (Ac)

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 93

Gly Xaa Ser Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 94

<211> 5

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MOD_RES

<222> (1)..(1)

<223> modified with acyl (Ac)

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (3)..(3)

<223> modified with NH-hexyl

<220>

<221> MOD_RES

<222> (5)..(5)

<223> AMIDATION

<400> 94

Gly Xaa Glu Phe Leu
1 5

<210> 95
 <211> 6
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> modified with acyl (Ac)

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-hexyl

<220>
 <221> MOD_RES
 <222> (6)..(6)
 <223> AMIDATION

<400> 95

Gly Xaa Glu Phe Leu Ser
 1 5

<210> 96
 <211> 7
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> modified with acyl (Ac)

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-hexyl

<220>
 <221> MOD_RES
 <222> (7)..(7)
 <223> AMIDATION

<400> 96

Gly Xaa Glu Phe Leu Ser Pro
 1 5

<210> 97

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MOD_RES

<222> (1)..(1)

<223> modified with acyl (Ac)

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (3)..(3)

<223> modified with NH-hexyl

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 97

Gly Xaa Glu Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 98

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MOD_RES

<222> (1)..(1)

<223> modified with acyl (Ac)

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (3)..(3)

<223> modified with NH-hexyl

<220>

<221> MISC_FEATURE

<222> (8)..(8)

<223> Xaa = Arg or Lys

<220>

<221> MOD_RES

<222> (8)..(8)

<223> AMIDATION

<400> 98

Gly Xaa Glu Phe Leu Ser Pro Xaa
1 5

<210> 99

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MOD_RES

<222> (1)..(1)

<223> modified with acyl (Ac)

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (3)..(3)

<223> modified with NH-hexyl

<220>

<221> MISC_FEATURE

<222> (10)..(10)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 99

Gly Xaa Glu Phe Leu Ser Pro Glu His Xaa Arg Val Gln Gln Arg Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 100
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> modified with n-butyryl, isobutyryl, n-octanoyl, or acyl (Ac)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 100

Gly Ser Ser Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 101
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> modified with n-butyryl

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-hexyl

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 101

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Gly Xaa Glu Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 102
<211> 28
<212> PRT
<213> Artificial

<220>
<223> Ghrelin Analog

<220>
<221> MOD_RES
<222> (28)..(28)
<223> AMIDATION

<400> 102

Gly Ser Ser Phe Leu Thr Pro Glu His Gln Arg Val Gln Gln Arg Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 103
<211> 28
<212> PRT
<213> Artificial

<220>
<223> Ghrelin Analog

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
<221> MOD_RES
<222> (3)..(3)
<223> modified with NH-hexyl

<220>
<221> MOD_RES
<222> (28)..(28)
<223> AMIDATION

<400> 103

Gly Xaa Glu Phe Leu Thr Pro Glu His Gln Arg Val Gln Gln Arg Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 104
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 104

Gly Xaa Ser Phe Leu Thr Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 105
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-heptyl, O-hexyl, or NH-hexyl

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 105

Gly Ser Asp Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 106

<211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-hexyl, or O-hexyl

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 106

Gly Ser Glu Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 107
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 107

Xaa Ser Ser Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 108
 <211> 28
 <212> PRT
 <213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MOD_RES

<222> (3)..(3)

<223> modified with S(CH₂)₉CH₃, or S-decyl

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 108

Gly Ser Cys Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 109

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (3)..(3)

<223> modified with NH-hexyl

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 109

Gly Xaa Glu Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 110

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> Xaa = Leu or Lys

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 110

Gly Ser Ser Phe Lys Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 111

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (3)..(3)

<223> modified with NH-hexyl

<220>

<221> MISC_FEATURE

<222> (9)..(9)

<223> Xaa = beta-(4-pyridinyl)Ala (4Pal)

<220>

<221> MISC_FEATURE

<222> (12)..(12)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MISC_FEATURE

<222> (15)..(15)

<223> Xaa = ornithine (Orn)

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 111

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Gly Xaa Glu Phe Leu Ser Pro Glu Xaa Gln Arg Xaa Gln Gln Xaa Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 112
<211> 28
<212> PRT
<213> Artificial

<220>
<223> Ghrelin Analog

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
<221> MOD_RES
<222> (3)..(3)
<223> modified with NH-hexyl

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
<221> MOD_RES
<222> (28)..(28)
<223> AMIDATION

<400> 112

Gly Xaa Glu Phe Leu Ser Pro Xaa His Gln Arg Val Gln Gln Arg Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 113
<211> 28
<212> PRT
<213> Artificial

<220>
<223> Ghrelin Analog

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-hexyl

<220>
 <221> MISC_FEATURE
 <222> (10)..(10)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 113

Gly Xaa Glu Phe Leu Ser Pro Glu His Xaa Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 114
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-hexyl

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 114

Gly Xaa Glu Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 115
 <211> 28
 <212> PRT
 <213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (3)..(3)

<223> modified with NH-hexyl

<220>

<221> MISC_FEATURE

<222> (8)..(8)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 115

Gly	Xaa	Glu	Phe	Leu	Ser	Pro	Xaa	His	Gln	Arg	Val	Gln	Gln	Arg	Lys
1				5					10					15	

Glu	Ser	Lys	Lys	Pro	Pro	Ala	Lys	Leu	Gln	Pro	Arg
			20					25			

<210> 116

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> Xaa = Gly or des-Gly

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = des-Ser

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 116

Xaa	Xaa	Ser	Phe	Leu	Ser	Pro	Glu	His	Gln	Arg	Val	Gln	Gln	Arg	Lys
1				5					10					15	

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 117
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> Xaa = beta-(4-pyridinyl)Ala (4Pal)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 117

Gly Xaa Ser Xaa Leu Ser Pro Glu Xaa Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 118
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> modified with acyl (Ac)

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

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<220>
 <221> MISC_FEATURE
 <222> (10)..(10)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 118

Gly Xaa Ser Phe Leu Ser Pro Glu His Xaa Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 119
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> modified with n-butyryl

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 119

Gly Xaa Ser Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 120
 <211> 8
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> modified with acyl (Ac)

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (8)..(8)
 <223> AMIDATION

<400> 120

Gly Xaa Ser Phe Leu Ser Pro Arg
 1 5

<210> 121
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (8)..(8)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 121

Gly Ser Ser Phe Leu Ser Pro Xaa His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 122
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

83127-11_seq_list_mar_2008.ST25.txt

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 122

Xaa Ser Thr Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 123
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 123

Gly Xaa Thr Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 124
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MISC_FEATURE
 <222> (6)..(6)
 <223> Xaa = alpha-aminoisobutyric acid (Aib), or alpha-aminobutyric

acid (Abu)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 124

Gly Xaa Thr Phe Leu Xaa Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 125
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> Xaa = 1-amino-1-cyclopentanecarboxylic acid (A5c)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 125

Gly Ser Thr Phe Xaa Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 126
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)

<223> xaa = beta-(3-pyridinyl)Ala (3Pal), beta-(4-thiazolyl)Ala (Taz),
or beta-(2-thienyl)Ala (2Thi)

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 126

Gly Xaa Thr Phe Leu Ser Pro Glu Xaa Gln Arg Val Gln Gln Arg Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 127

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MISC_FEATURE

<222> (7)..(7)

<223> xaa = thiazolidine-4-carboxylic acid (Thz), 4-hydroxyPro (4Hyp),
3,4-dehydroPro (Dhp), pipecolic acid (Pip), or
1,2,3,4-tetrahydroisoquinoline-3-carboxylic acid (Tic)

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 127

Gly Xaa Thr Phe Leu Ser Xaa Glu His Gln Arg Val Gln Gln Arg Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 128

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> Xaa = beta-cyclohexylAla (Cha)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 128

Gly Xaa Thr Phe Xaa Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 129
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> Xaa = beta-(4-pyridinyl)Ala (4Pal)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 129

Gly Xaa Thr Xaa Leu Ser Pro Glu Xaa Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

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<210> 130
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MISC_FEATURE
 <222> (8)..(8)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 130

Gly Xaa Thr Phe Leu Ser Pro Xaa His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 131
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> Xaa = Gly or Gly modified with acyl (Ac)

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MISC_FEATURE
 <222> (10)..(10)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 131

Xaa Xaa Thr Phe Leu Ser Pro Glu His Xaa Arg Val Gln Gln Arg Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 132

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MOD_RES

<222> (1)..(1)

<223> modified with n-octanoyl, isobutyryl, or n-butyryl

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 132

Gly Ser Thr Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 133

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MOD_RES

<222> (1)..(1)

<223> modified with n-butyryl, or acyl (Ac)

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 133

Gly Xaa Thr Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 134

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MOD_RES

<222> (1)..(1)

<223> modified with acyl (Ac)

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (8)..(8)

<223> AMIDATION

<400> 134

Gly Xaa Thr Phe Leu Ser Pro Arg
 1 5

<210> 135

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE

<222> (8)..(8)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 135

Gly Ser Thr Phe Leu Ser Pro Xaa His Gln Arg Val Gln Gln Arg Lys

1

5

10

15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 136
<211> 28
<212> PRT
<213> Artificial

<220>
<223> Ghrelin Analog

<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> Xaa = beta-(4-thiazolyl)Ala (Taz), beta-(3-pyridinyl)Ala (3Pal),
beta-(4-pyridinyl)Ala (4Pal), or beta-(2-thienyl)Ala (2Thi)

<220>
<221> MOD_RES
<222> (28)..(28)
<223> AMIDATION

<400> 136

Gly Ser Thr Phe Leu Ser Pro Glu Xaa Gln Arg Val Gln Gln Arg Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 137
<211> 28
<212> PRT
<213> Artificial

<220>
<223> Ghrelin Analog

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa = 4-hydroxyPro (4Hyp)

<220>
<221> MOD_RES
<222> (28)..(28)
<223> AMIDATION

<400> 137

Gly Ser Thr Phe Leu Ser Xaa Glu His Gln Arg Val Gln Gln Arg Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
Page 83

<210> 138
<211> 28
<212> PRT
<213> Artificial

<220>
<223> Ghrelin Analog

<220>
<221> MOD_RES
<222> (1)..(1)
<223> modified with acyl (Ac)

<220>
<221> MOD_RES
<222> (3)..(3)
<223> modified with NH-hexyl

<220>
<221> MOD_RES
<222> (28)..(28)
<223> AMIDATION

<400> 138

Gly Ser Glu Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
20 25

<210> 139
<211> 28
<212> PRT
<213> Artificial

<220>
<223> Ghrelin Analog

<220>
<221> MOD_RES
<222> (1)..(1)
<223> modified with acyl (Ac)

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 139

Gly Xaa Ser Phe Leu Ser Pro Glu His Xaa Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 140

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MOD_RES

<222> (1)..(1)

<223> modified with n-butyryl

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (28)..(28)

<223> AMIDATION

<400> 140

Gly Xaa Ser Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 141

<211> 28

<212> PRT

<213> Artificial

<220>

<223> Ghrelin Analog

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>

<221> MOD_RES

<222> (3)..(3)
 <223> modified with NH-hexyl

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> Xaa = 4-hydroxyPro (4Hyp)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 141

Gly Xaa Glu Phe Leu Ser Xaa Glu His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 142
 <211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-hexyl

<220>
 <221> MISC_FEATURE
 <222> (8)..(8)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 142

Gly Xaa Glu Phe Leu Ser Pro Xaa His Gln Arg Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 143

<211> 28
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MOD_RES
 <222> (3)..(3)
 <223> modified with NH-hexyl

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> Xaa = beta-(4-pyridinyl)Ala (4Pal)

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> Xaa = alpha-aminoisobutyric acid (Aib)

<220>
 <221> MISC_FEATURE
 <222> (15)..(15)
 <223> Xaa = ornithine (Orn)

<220>
 <221> MOD_RES
 <222> (28)..(28)
 <223> AMIDATION

<400> 143

Gly Xaa Glu Phe Leu Ser Pro Glu Xaa Gln Arg Xaa Gln Gln Xaa Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 144
 <211> 27
 <212> PRT
 <213> Artificial

<220>
 <223> Ghrelin Analog

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> Xaa = Ava

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = 2,3-diaminopropionic acid (Dap) modified with
1-octanesulfonyl

<220>

<221> MOD_RES

<222> (27)..(27)

<223> AMIDATION

<400> 144

Xaa	Xaa	Phe	Leu	Ser	Pro	Glu	His	Gln	Arg	Val	Gln	Gln	Arg	Lys	Glu
1				5					10					15	

Ser	Lys	Lys	Pro	Pro	Ala	Lys	Leu	Gln	Pro	Arg
			20					25		

<210> 145

<211> 6

<212> PRT

<213> Artificial

<220>

<223> Growth Hormone Releasing Peptide

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> Xaa = D-Tryptophan

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> Xaa = D-Phenylalanine

<220>

<221> MOD_RES

<222> (6)..(6)

<223> AMIDATION

<400> 145

His	Xaa	Ala	Trp	Xaa	Lys
1				5	

<210> 146

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Growth Hormone Releasing Peptide

<220>

<221> MISC_FEATURE

<222> (3)..(3)

<223> Xaa = D-beta-(2-naphthyl)Ala (D-2-Nal)

<220>
 <221> MISC_FEATURE
 <222> (6)..(6)
 <223> Xaa = D-Phenylalanine

<220>
 <221> MOD_RES
 <222> (7)..(7)
 <223> AMIDATION

<400> 146

Ala His Xaa Ala Trp Xaa Lys
 1 5

<210> 147
 <211> 6
 <212> PRT
 <213> Artificial

<220>
 <223> Growth Hormone Releasing Peptide

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> Xaa = D-Alanine

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> Xaa = D-beta-(2-naphthyl)Ala (D-2-Nal)

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> Xaa = D-beta-(1-naphthyl)Ala (D-Nal)

<220>
 <221> MOD_RES
 <222> (6)..(6)
 <223> AMIDATION

<400> 147

Xaa Xaa Ala Trp Xaa Lys
 1 5

<210> 148
 <211> 6
 <212> PRT
 <213> Artificial

<220>
 <223> Hexarelin

<220>
 <221> MISC_FEATURE

<222> (2)..(2)
 <223> Xaa = D-2-Me-Tryptophan

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> Xaa = D-Phenylalanine

<220>
 <221> MOD_RES
 <222> (6)..(6)
 <223> AMIDATION

<400> 148

His Xaa Ala Trp Xaa Lys
 1 5

<210> 149
 <211> 27
 <212> DNA
 <213> Artificial

<220>
 <223> oligonucleotide primer

<400> 149
 atgtggaacg cgacgccag cgaagag

27

<210> 150
 <211> 27
 <212> DNA
 <213> Artificial

<220>
 <223> oligonucleotide Primer

<400> 150
 tcatgtatta atactagatt ctgtcca

27